

Concentrations

21-Dec-23 17:15:18



Instrument Name	Serial Number
iCAP RQ	Undefined

LabBook	LabBook Path
2023_12_21_M94_CrMnFeCoNiCu_SGoe-mtr.imexp	_Application Data\Workspace\LabBooks

Analysis index: 1 Analysis started at: 21-Dec-23 13:09:00
Analysis label: Rinse HNO3 2% User name: THERMOF-6VBH8PNICPMS-User

Category	52Cr (mp_KED)	53Cr (mp_KED)	55Mn (mp_KED)	56Fe (mp_KED)	57Fe (mp_KED)	59Co (mp_KED)	60Ni (mp_KED)	61Ni (mp_KED)	62Ni (mp_KED)
Concentration average	-0.003 ppb	0.001 ppb	0.004 ppb	0.016 ppb	0.035 ppb	0.002 ppb	0.009 ppb	0.017 ppb	0.009 ppb
Concentration per Run 1	-0.004 ppb	0.005 ppb	0.004 ppb	0.013 ppb	0.063 ppb	0.002 ppb	0.009 ppb	0.018 ppb	0.009 ppb
Concentration per Run 2	-0.004 ppb	0.001 ppb	0.004 ppb	0.018 ppb	0.020 ppb	0.003 ppb	0.009 ppb	0.017 ppb	0.010 ppb
Concentration per Run 3	-0.003 ppb	-0.001 ppb	0.004 ppb	0.017 ppb	0.028 ppb	0.002 ppb	0.009 ppb	0.018 ppb	0.012 ppb
Concentration per Run 4	-0.003 ppb	0.000 ppb	0.004 ppb	0.016 ppb	0.031 ppb	0.002 ppb	0.009 ppb	0.016 ppb	0.005 ppb
Concentration RSD	17.5 %	197.4 %	4.5 %	13.3 %	53.4 %	10.4 %	3.9 %	6.9 %	31.9 %

Category	63Cu (mp_KED)	65Cu (mp_KED)	95Mo (mp_KED)	97Mo (mp_KED)
Concentration average	0.020 ppb	0.020 ppb	0.005 ppb	0.005 ppb
Concentration per Run 1	0.019 ppb	0.021 ppb	0.001 ppb	0.003 ppb
Concentration per Run 2	0.021 ppb	0.019 ppb	0.005 ppb	0.005 ppb
Concentration per Run 3	0.019 ppb	0.022 ppb	0.006 ppb	0.006 ppb
Concentration per Run 4	0.019 ppb	0.018 ppb	0.007 ppb	0.005 ppb
Concentration RSD	4.7 %	9.3 %	54.0 %	31.0 %

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LabBook	LabBook Path
2023_12_21_M94_CrMnFeCoNiCu_SGoe-mtr.imexp	_Application Data\Workspace\LabBooks

Analysis index: 2 Analysis started at: 21-Dec-23 13:14:06
Analysis label: Rinse HNO3 2% User name: THERMOF-6VBH8PNICPMS-User

Category	52Cr (mp_KED)	53Cr (mp_KED)	55Mn (mp_KED)	56Fe (mp_KED)	57Fe (mp_KED)	59Co (mp_KED)	60Ni (mp_KED)	61Ni (mp_KED)	62Ni (mp_KED)
Concentration average	-0.004 ppb	-0.001 ppb	0.004 ppb	0.012 ppb	0.025 ppb	0.001 ppb	0.010 ppb	0.012 ppb	0.008 ppb
Concentration per Run 1	-0.004 ppb	-0.003 ppb	0.004 ppb	0.010 ppb	0.024 ppb	0.002 ppb	0.009 ppb	0.014 ppb	0.008 ppb
Concentration per Run 2	-0.004 ppb	-0.001 ppb	0.004 ppb	0.007 ppb	0.032 ppb	0.001 ppb	0.011 ppb	0.017 ppb	0.005 ppb
Concentration per Run 3	-0.003 ppb	-0.004 ppb	0.004 ppb	0.016 ppb	0.034 ppb	0.002 ppb	0.011 ppb	0.012 ppb	0.010 ppb
Concentration per Run 4	-0.003 ppb	0.002 ppb	0.003 ppb	0.016 ppb	0.011 ppb	0.002 ppb	0.009 ppb	0.006 ppb	0.008 ppb
Concentration RSD	8.6 %	205.1 %	10.6 %	35.9 %	42.7 %	12.6 %	13.5 %	39.3 %	24.4 %

Category	63Cu (mp_KED)	65Cu (mp_KED)	95Mo (mp_KED)	97Mo (mp_KED)
Concentration average	0.020 ppb	0.020 ppb	0.006 ppb	0.006 ppb
Concentration per Run 1	0.020 ppb	0.019 ppb	0.004 ppb	0.003 ppb
Concentration per Run 2	0.019 ppb	0.020 ppb	0.004 ppb	0.005 ppb
Concentration per Run 3	0.021 ppb	0.020 ppb	0.006 ppb	0.006 ppb
Concentration per Run 4	0.019 ppb	0.019 ppb	0.007 ppb	0.008 ppb
Concentration RSD	4.3 %	4.4 %	26.9 %	38.0 %

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LabBook	LabBook Path
2023_12_21_M94_CrMnFeCoNiCu_SGoe-mtr.imexp	_Application Data\Workspace\LabBooks

Analysis index: 3 Analysis started at: 21-Dec-23 13:19:13
Analysis label: Rinse HNO3 2% User name: THERMOF-6VBH8PNICPMS-User

Category	52Cr (mp_KED)	53Cr (mp_KED)	55Mn (mp_KED)	56Fe (mp_KED)	57Fe (mp_KED)	59Co (mp_KED)	60Ni (mp_KED)	61Ni (mp_KED)	62Ni (mp_KED)
Concentration average	-0.003 ppb	-0.002 ppb	0.003 ppb	0.016 ppb	0.018 ppb	0.001 ppb	0.010 ppb	0.006 ppb	0.009 ppb
Concentration per Run	-0.003 ppb	-0.002 ppb	0.003 ppb	0.016 ppb	0.018 ppb	0.001 ppb	0.010 ppb	0.006 ppb	0.009 ppb
Concentration RSD	18.7 %	145.5 %	10.2 %	25.7 %	10.0 %	28.6 %	10.2 %	54.7 %	40.6 %

Category	63Cu (mp_KED)	65Cu (mp_KED)	95Mo (mp_KED)	97Mo (mp_KED)
Concentration average	0.019 ppb	0.020 ppb	0.005 ppb	0.006 ppb
Concentration per Run	0.019 ppb	0.020 ppb	0.005 ppb	0.006 ppb
Concentration RSD	5.5 %	6.7 %	24.2 %	14.0 %

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Instrument Name	Serial Number
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LabBook	LabBook Path
2023_12_21_M94_CrMnFeCoNiCu_SGoe-mtr.imexp	_Application Data\Workspace\LabBooks

Analysis index: 4
Analysis label: M28SnPd 0 ppb 300µL HNO3 22.09.2023 mtr

Analysis started at: 21-Dec-23 13:24:19
User name: THERMOF-6VBH8PN\ICPMS-User

Category	52Cr (mp_KED)	53Cr (mp_KED)	55Mn (mp_KED)	56Fe (mp_KED)	57Fe (mp_KED)	59Co (mp_KED)	60Ni (mp_KED)	61Ni (mp_KED)	62Ni (mp_KED)
Concentration average	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb
Concentration per Run 1	0.000 ppb	0.001 ppb	0.000 ppb	0.001 ppb	-0.007 ppb	0.000 ppb	0.002 ppb	0.000 ppb	0.003 ppb
Concentration per Run 2	0.000 ppb	0.000 ppb	0.000 ppb	-0.002 ppb	-0.005 ppb	0.000 ppb	0.000 ppb	0.003 ppb	-0.001 ppb
Concentration per Run 3	0.000 ppb	-0.002 ppb	0.000 ppb	-0.001 ppb	0.008 ppb	0.000 ppb	-0.001 ppb	-0.001 ppb	-0.003 ppb
Concentration per Run 4	0.000 ppb	0.001 ppb	0.000 ppb	0.002 ppb	0.003 ppb	0.000 ppb	-0.001 ppb	-0.002 ppb	0.000 ppb
Concentration RSD	2.6 %	5.0 %	7.5 %	0.8 %	6.0 %	2.6 %	5.4 %	12.8 %	10.7 %

Category	63Cu (mp_KED)	65Cu (mp_KED)	95Mo (mp_KED)	97Mo (mp_KED)
Concentration average	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb
Concentration per Run 1	0.001 ppb	0.002 ppb	-0.003 ppb	-0.003 ppb
Concentration per Run 2	0.000 ppb	-0.002 ppb	-0.001 ppb	-0.001 ppb
Concentration per Run 3	-0.001 ppb	-0.002 ppb	0.002 ppb	0.002 ppb
Concentration per Run 4	0.000 ppb	0.002 ppb	0.002 ppb	0.002 ppb
Concentration RSD	1.7 %	4.4 %	10.5 %	10.2 %

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LabBook	LabBook Path
2023_12_21_M94_CrMnFeCoNiCu_SGoe-mtr.imexp	_Application Data\Workspace\LabBooks

Analysis index: 5
Analysis label: M28SnPd 1 ppb 300µL HNO3 22.09.2023 mtr

Analysis started at: 21-Dec-23 13:29:27
User name: THERMOF-6VBH8PN\ICPMS-User

Category	52Cr (mp_KED)	53Cr (mp_KED)	55Mn (mp_KED)	56Fe (mp_KED)	57Fe (mp_KED)	59Co (mp_KED)	60Ni (mp_KED)	61Ni (mp_KED)	62Ni (mp_KED)
Concentration average	1.063 ppb	1.069 ppb	1.074 ppb	1.019 ppb	1.031 ppb	1.076 ppb	1.098 ppb	1.107 ppb	1.094 ppb
Concentration per Run 1	1.064 ppb	1.074 ppb	1.066 ppb	1.012 ppb	0.998 ppb	1.068 ppb	1.090 ppb	1.093 ppb	1.093 ppb
Concentration per Run 2	1.057 ppb	1.049 ppb	1.069 ppb	1.018 ppb	1.029 ppb	1.073 ppb	1.101 ppb	1.114 ppb	1.093 ppb
Concentration per Run 3	1.058 ppb	1.071 ppb	1.083 ppb	1.023 ppb	1.084 ppb	1.081 ppb	1.098 ppb	1.104 ppb	1.081 ppb
Concentration per Run 4	1.072 ppb	1.081 ppb	1.079 ppb	1.024 ppb	1.013 ppb	1.083 ppb	1.104 ppb	1.115 ppb	1.107 ppb
Concentration RSD	0.7 %	1.3 %	0.7 %	0.5 %	3.6 %	0.6 %	0.5 %	0.9 %	1.0 %

Category	63Cu (mp_KED)	65Cu (mp_KED)	95Mo (mp_KED)	97Mo (mp_KED)
Concentration average	1.094 ppb	1.092 ppb	1.028 ppb	1.036 ppb
Concentration per Run 1	1.090 ppb	1.087 ppb	1.025 ppb	1.034 ppb
Concentration per Run 2	1.095 ppb	1.094 ppb	1.018 ppb	1.020 ppb
Concentration per Run 3	1.095 ppb	1.092 ppb	1.031 ppb	1.044 ppb
Concentration per Run 4	1.097 ppb	1.096 ppb	1.037 ppb	1.047 ppb
Concentration RSD	0.3 %	0.3 %	0.8 %	1.2 %

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LabBook	LabBook Path
2023_12_21_M94_CrMnFeCoNiCu_SGoe-mtr.imexp	_Application Data\Workspace\LabBooks

Analysis index: 6
Analysis label: M28SnPd 5 ppb 300µL HNO3 22.09.2023 mtr

Analysis started at: 21-Dec-23 13:34:34
User name: THERMOF-6VBH8PN\ICPMS-User

Category	52Cr (mp_KED)	53Cr (mp_KED)	55Mn (mp_KED)	56Fe (mp_KED)	57Fe (mp_KED)	59Co (mp_KED)	60Ni (mp_KED)	61Ni (mp_KED)	62Ni (mp_KED)
Concentration average	5.457 ppb	5.449 ppb	5.471 ppb	5.282 ppb	5.274 ppb	5.491 ppb	5.600 ppb	5.617 ppb	5.630 ppb
Concentration per Run 1	5.455 ppb	5.419 ppb	5.435 ppb	5.259 ppb	5.298 ppb	5.481 ppb	5.582 ppb	5.549 ppb	5.665 ppb
Concentration per Run 2	5.443 ppb	5.415 ppb	5.462 ppb	5.268 ppb	5.191 ppb	5.495 ppb	5.584 ppb	5.642 ppb	5.627 ppb
Concentration per Run 3	5.477 ppb	5.475 ppb	5.506 ppb	5.298 ppb	5.346 ppb	5.509 ppb	5.636 ppb	5.662 ppb	5.597 ppb
Concentration per Run 4	5.453 ppb	5.485 ppb	5.480 ppb	5.303 ppb	5.262 ppb	5.481 ppb	5.598 ppb	5.616 ppb	5.630 ppb
Concentration RSD	0.3 %	0.7 %	0.6 %	0.4 %	1.2 %	0.2 %	0.4 %	0.9 %	0.5 %

Category	63Cu (mp_KED)	65Cu (mp_KED)	95Mo (mp_KED)	97Mo (mp_KED)
Concentration average	5.586 ppb	5.621 ppb	5.291 ppb	5.335 ppb
Concentration per Run 1	5.581 ppb	5.655 ppb	5.293 ppb	5.336 ppb
Concentration per Run 2	5.561 ppb	5.593 ppb	5.273 ppb	5.340 ppb
Concentration per Run 3	5.603 ppb	5.604 ppb	5.308 ppb	5.338 ppb
Concentration per Run 4	5.597 ppb	5.632 ppb	5.292 ppb	5.324 ppb
Concentration RSD	0.3 %	0.5 %	0.3 %	0.1 %

Concentrations

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LabBook	LabBook Path
2023_12_21_M94_CrMnFeCoNiCu_SGoe-mtr.imexp	_Application Data\Workspace\LabBooks

Analysis index: 7
Analysis label: M28SnPd 10 ppb 300µL HNO3 22.09.2023 mtr

Analysis started at: 21-Dec-23 13:39:42
User name: THERMOF-6VBH8PN\ICPMS-User

Category	52Cr (mp_KED)	53Cr (mp_KED)	55Mn (mp_KED)	56Fe (mp_KED)	57Fe (mp_KED)	59Co (mp_KED)	60Ni (mp_KED)	61Ni (mp_KED)	62Ni (mp_KED)
Concentration average	10.606 ppb	10.656 ppb	10.717 ppb	10.274 ppb	10.405 ppb	10.726 ppb	10.866 ppb	10.918 ppb	10.871 ppb
Concentration per Run 1	10.670 ppb	10.612 ppb	10.716 ppb	10.276 ppb	10.481 ppb	10.767 ppb	10.888 ppb	10.918 ppb	10.867 ppb
Concentration per Run 2	10.633 ppb	10.719 ppb	10.741 ppb	10.313 ppb	10.438 ppb	10.779 ppb	10.901 ppb	11.123 ppb	10.952 ppb
Concentration per Run 3	10.580 ppb	10.639 ppb	10.680 ppb	10.256 ppb	10.402 ppb	10.703 ppb	10.830 ppb	10.715 ppb	10.843 ppb
Concentration per Run 4	10.540 ppb	10.653 ppb	10.730 ppb	10.251 ppb	10.298 ppb	10.654 ppb	10.845 ppb	10.916 ppb	10.823 ppb
Concentration RSD	0.5 %	0.4 %	0.2 %	0.3 %	0.7 %	0.5 %	0.3 %	1.5 %	0.5 %

Category	63Cu (mp_KED)	65Cu (mp_KED)	95Mo (mp_KED)	97Mo (mp_KED)
Concentration average	10.887 ppb	10.947 ppb	10.363 ppb	10.493 ppb
Concentration per Run 1	10.928 ppb	11.032 ppb	10.410 ppb	10.600 ppb
Concentration per Run 2	10.935 ppb	10.966 ppb	10.424 ppb	10.474 ppb
Concentration per Run 3	10.828 ppb	10.889 ppb	10.338 ppb	10.436 ppb
Concentration per Run 4	10.859 ppb	10.901 ppb	10.280 ppb	10.463 ppb
Concentration RSD	0.5 %	0.6 %	0.6 %	0.7 %

Concentrations

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Instrument Name	Serial Number
iCAP RQ	Undefined

LabBook	LabBook Path
2023_12_21_M94_CrMnFeCoNiCu_SGoe-mtr.imexp	_Application Data\Workspace\LabBooks

Analysis index: 8
Analysis label: M28SnPd 20 ppb 300µL HNO3 22.09.2023 mtr

Analysis started at: 21-Dec-23 13:44:50
User name: THERMOF-6VBH8PN\ICPMS-User

Category	52Cr (mp_KED)	53Cr (mp_KED)	55Mn (mp_KED)	56Fe (mp_KED)	57Fe (mp_KED)	59Co (mp_KED)	60Ni (mp_KED)	61Ni (mp_KED)	62Ni (mp_KED)
Concentration average	21.366 ppb	21.378 ppb	21.594 ppb	20.722 ppb	20.718 ppb	21.695 ppb	21.737 ppb	21.711 ppb	21.743 ppb
Concentration per Run 1	21.499 ppb	21.526 ppb	21.729 ppb	20.906 ppb	20.884 ppb	21.831 ppb	21.930 ppb	21.692 ppb	21.961 ppb
Concentration per Run 2	21.380 ppb	21.409 ppb	21.579 ppb	20.690 ppb	20.816 ppb	21.718 ppb	21.663 ppb	21.941 ppb	21.652 ppb
Concentration per Run 3	21.397 ppb	21.438 ppb	21.675 ppb	20.801 ppb	20.861 ppb	21.719 ppb	21.757 ppb	21.724 ppb	21.684 ppb
Concentration per Run 4	21.189 ppb	21.140 ppb	21.394 ppb	20.491 ppb	20.312 ppb	21.514 ppb	21.599 ppb	21.487 ppb	21.674 ppb
Concentration RSD	0.6 %	0.8 %	0.7 %	0.9 %	1.3 %	0.6 %	0.7 %	0.9 %	0.7 %

Category	63Cu (mp_KED)	65Cu (mp_KED)	95Mo (mp_KED)	97Mo (mp_KED)
Concentration average	21.844 ppb	21.900 ppb	20.942 ppb	21.113 ppb
Concentration per Run 1	22.035 ppb	22.010 ppb	21.050 ppb	21.244 ppb
Concentration per Run 2	21.744 ppb	21.815 ppb	20.959 ppb	21.211 ppb
Concentration per Run 3	21.861 ppb	22.048 ppb	21.025 ppb	21.112 ppb
Concentration per Run 4	21.738 ppb	21.726 ppb	20.734 ppb	20.883 ppb
Concentration RSD	0.6 %	0.7 %	0.7 %	0.8 %

Concentrations

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Instrument Name	Serial Number
iCAP RQ	Undefined

LabBook	LabBook Path
2023_12_21_M94_CrMnFeCoNiCu_SGoe-mtr.imexp	_Application Data\Workspace\LabBooks

Analysis index: 9
Analysis label: M28SnPd 50 ppb 300µL HNO3 22.09.2023 mtr

Analysis started at: 21-Dec-23 13:49:59
User name: THERMOF-6VBH8PN\ICPMS-User

Category	52Cr (mp_KED)	53Cr (mp_KED)	55Mn (mp_KED)	56Fe (mp_KED)	57Fe (mp_KED)	59Co (mp_KED)	60Ni (mp_KED)	61Ni (mp_KED)	62Ni (mp_KED)
Concentration average	54.660 ppb	54.534 ppb	52.064 ppb	60.101 ppb	59.791 ppb	51.920 ppb	52.475 ppb	52.637 ppb	52.676 ppb
Concentration per Run 1	54.665 ppb	55.001 ppb	51.955 ppb	59.909 ppb	59.993 ppb	52.016 ppb	52.476 ppb	52.746 ppb	52.526 ppb
Concentration per Run 2	54.605 ppb	54.374 ppb	51.804 ppb	60.080 ppb	59.744 ppb	51.541 ppb	52.359 ppb	52.685 ppb	52.770 ppb
Concentration per Run 3	54.442 ppb	54.219 ppb	52.049 ppb	59.861 ppb	59.673 ppb	51.957 ppb	52.519 ppb	52.398 ppb	52.649 ppb
Concentration per Run 4	54.928 ppb	54.539 ppb	52.450 ppb	60.552 ppb	59.753 ppb	52.166 ppb	52.547 ppb	52.718 ppb	52.760 ppb
Concentration RSD	0.4 %	0.6 %	0.5 %	0.5 %	0.2 %	0.5 %	0.2 %	0.3 %	0.2 %

Category	63Cu (mp_KED)	65Cu (mp_KED)	95Mo (mp_KED)	97Mo (mp_KED)
Concentration average	52.324 ppb	52.306 ppb	51.870 ppb	51.803 ppb
Concentration per Run 1	52.192 ppb	52.619 ppb	52.045 ppb	52.010 ppb
Concentration per Run 2	52.182 ppb	51.980 ppb	51.762 ppb	51.553 ppb
Concentration per Run 3	52.286 ppb	52.220 ppb	51.455 ppb	51.645 ppb
Concentration per Run 4	52.635 ppb	52.405 ppb	52.217 ppb	52.006 ppb
Concentration RSD	0.4 %	0.5 %	0.6 %	0.5 %

Concentrations

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Instrument Name	Serial Number
iCAP RQ	Undefined

LabBook	LabBook Path
2023_12_21_M94_CrMnFeCoNiCu_SGoe-mtr.imexp	_Application Data\Workspace\LabBooks

Analysis index: 10
Analysis label: M28SnPd 100 ppb 300µL HNO3 22.09.2023 mtr

Analysis started at: 21-Dec-23 13:55:09
User name: THERMOF-6VBH8PN\ICPMS-User

Category	52Cr (mp_KED)	53Cr (mp_KED)	55Mn (mp_KED)	56Fe (mp_KED)	57Fe (mp_KED)	59Co (mp_KED)	60Ni (mp_KED)	61Ni (mp_KED)	62Ni (mp_KED)
Concentration average	97.313 ppb	97.369 ppb	98.553 ppb	94.764 ppb	94.907 ppb	98.603 ppb	98.297 ppb	98.216 ppb	98.194 ppb
Concentration per Run 1	97.109 ppb	97.342 ppb	98.471 ppb	94.766 ppb	94.920 ppb	98.363 ppb	98.208 ppb	98.108 ppb	98.812 ppb
Concentration per Run 2	97.056 ppb	97.556 ppb	98.817 ppb	94.752 ppb	94.854 ppb	98.952 ppb	98.368 ppb	98.719 ppb	98.244 ppb
Concentration per Run 3	97.631 ppb	97.253 ppb	98.543 ppb	94.754 ppb	94.834 ppb	98.397 ppb	98.330 ppb	98.034 ppb	97.771 ppb
Concentration per Run 4	97.456 ppb	97.325 ppb	98.382 ppb	94.782 ppb	95.018 ppb	98.700 ppb	98.283 ppb	98.001 ppb	97.948 ppb
Concentration RSD	0.3 %	0.1 %	0.2 %	0.0 %	0.1 %	0.3 %	0.1 %	0.3 %	0.5 %

Category	63Cu (mp_KED)	65Cu (mp_KED)	95Mo (mp_KED)	97Mo (mp_KED)
Concentration average	98.350 ppb	98.340 ppb	98.826 ppb	98.809 ppb
Concentration per Run 1	98.628 ppb	98.394 ppb	98.718 ppb	98.560 ppb
Concentration per Run 2	98.604 ppb	98.299 ppb	98.980 ppb	98.504 ppb
Concentration per Run 3	98.244 ppb	98.187 ppb	98.848 ppb	99.277 ppb
Concentration per Run 4	97.923 ppb	98.482 ppb	98.757 ppb	98.897 ppb
Concentration RSD	0.3 %	0.1 %	0.1 %	0.4 %

Concentrations

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iCAP RQ	Undefined

LabBook	LabBook Path
2023_12_21_M94_CrMnFeCoNiCu_SGoe-mtr.imexp	_Application Data\Workspace\LabBooks

Analysis index: 11
Analysis label: M28Ru 10 ppb 1500ml HNO3 in 50ml 27.10.2023 mtr

Analysis started at: 21-Dec-23 14:00:15
User name: THERMOF-6VBH8PN\ICPMS-User

Category	52Cr (mp_KED)	53Cr (mp_KED)	55Mn (mp_KED)	56Fe (mp_KED)	57Fe (mp_KED)	59Co (mp_KED)	60Ni (mp_KED)	61Ni (mp_KED)	62Ni (mp_KED)
Concentration average	11.432 ppb	11.478 ppb	10.317 ppb	14.381 ppb	14.397 ppb	10.209 ppb	10.567 ppb	10.613 ppb	10.657 ppb
Concentration per Run 1	11.495 ppb	11.531 ppb	10.373 ppb	14.396 ppb	14.465 ppb	10.277 ppb	10.675 ppb	10.722 ppb	10.693 ppb
Concentration per Run 2	11.354 ppb	11.424 ppb	10.228 ppb	14.310 ppb	14.274 ppb	10.152 ppb	10.447 ppb	10.598 ppb	10.695 ppb
Concentration per Run 3	11.420 ppb	11.440 ppb	10.279 ppb	14.402 ppb	14.362 ppb	10.200 ppb	10.574 ppb	10.479 ppb	10.676 ppb
Concentration per Run 4	11.458 ppb	11.517 ppb	10.386 ppb	14.415 ppb	14.488 ppb	10.209 ppb	10.573 ppb	10.653 ppb	10.563 ppb
Concentration RSD	0.5 %	0.5 %	0.7 %	0.3 %	0.7 %	0.5 %	0.9 %	1.0 %	0.6 %

Category	63Cu (mp_KED)	65Cu (mp_KED)	95Mo (mp_KED)	97Mo (mp_KED)
Concentration average	10.458 ppb	10.514 ppb	11.222 ppb	11.361 ppb
Concentration per Run 1	10.521 ppb	10.576 ppb	11.292 ppb	11.384 ppb
Concentration per Run 2	10.396 ppb	10.465 ppb	11.196 ppb	11.322 ppb
Concentration per Run 3	10.472 ppb	10.529 ppb	11.192 ppb	11.361 ppb
Concentration per Run 4	10.442 ppb	10.484 ppb	11.208 ppb	11.379 ppb
Concentration RSD	0.5 %	0.5 %	0.4 %	0.2 %

Concentrations

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Instrument Name	Serial Number
iCAP RQ	Undefined

LabBook	LabBook Path
2023_12_21_M94_CrMnFeCoNiCu_SGoe-mtr.imexp	_Application Data\Workspace\LabBooks

Analysis index: 12 Analysis started at: 21-Dec-23 14:05:24
Analysis label: Rinse HNO3 2% User name: THERMOF-6VBH8PNICPMS-User

Category	52Cr (mp_KED)	53Cr (mp_KED)	55Mn (mp_KED)	56Fe (mp_KED)	57Fe (mp_KED)	59Co (mp_KED)	60Ni (mp_KED)	61Ni (mp_KED)	62Ni (mp_KED)
Concentration average	-0.001 ppb	-0.012 ppb	0.006 ppb	-0.015 ppb	0.008 ppb	0.002 ppb	0.008 ppb	0.008 ppb	0.011 ppb
Concentration per Run 1	-0.001 ppb	-0.014 ppb	0.007 ppb	-0.016 ppb	0.013 ppb	0.002 ppb	0.009 ppb	0.006 ppb	0.014 ppb
Concentration per Run 2	-0.001 ppb	-0.011 ppb	0.006 ppb	-0.016 ppb	-0.011 ppb	0.001 ppb	0.007 ppb	0.012 ppb	0.007 ppb
Concentration per Run 3	-0.001 ppb	-0.009 ppb	0.006 ppb	-0.015 ppb	0.007 ppb	0.002 ppb	0.007 ppb	0.000 ppb	0.008 ppb
Concentration per Run 4	-0.001 ppb	-0.013 ppb	0.006 ppb	-0.013 ppb	0.022 ppb	0.002 ppb	0.007 ppb	0.014 ppb	0.015 ppb
Concentration RSD	29.3 %	20.0 %	12.1 %	9.6 %	178.9 %	17.4 %	12.7 %	78.2 %	36.1 %

Category	63Cu (mp_KED)	65Cu (mp_KED)	95Mo (mp_KED)	97Mo (mp_KED)
Concentration average	0.014 ppb	0.013 ppb	0.435 ppb	0.443 ppb
Concentration per Run 1	0.015 ppb	0.013 ppb	0.430 ppb	0.442 ppb
Concentration per Run 2	0.014 ppb	0.015 ppb	0.427 ppb	0.423 ppb
Concentration per Run 3	0.014 ppb	0.013 ppb	0.453 ppb	0.469 ppb
Concentration per Run 4	0.014 ppb	0.011 ppb	0.430 ppb	0.437 ppb
Concentration RSD	4.0 %	10.9 %	2.8 %	4.4 %

Concentrations

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Instrument Name	Serial Number
iCAP RQ	Undefined

LabBook	LabBook Path
2023_12_21_M94_CrMnFeCoNiCu_SGoe-mtr.imexp	_Application Data\Workspace\LabBooks

Analysis index: 13
Analysis label: RZE-001 - 0.1mol/L KOH post OER 5h 10s - 0.1%
Analysis started at: 21-Dec-23 14:10:34
User name: THERMOF-6VBH8PN\ICPMS-User

Category	52Cr (mp_KED)	53Cr (mp_KED)	55Mn (mp_KED)	56Fe (mp_KED)	57Fe (mp_KED)	59Co (mp_KED)	60Ni (mp_KED)	61Ni (mp_KED)	62Ni (mp_KED)
Concentration average	0.010 ppb	0.010 ppb	0.006 ppb	-0.040 ppb	-0.011 ppb	0.001 ppb	-0.002 ppb	0.003 ppb	-0.003 ppb
Concentration per Run 1	0.010 ppb	0.007 ppb	0.006 ppb	-0.041 ppb	-0.006 ppb	0.001 ppb	-0.004 ppb	0.001 ppb	-0.002 ppb
Concentration per Run 2	0.009 ppb	0.012 ppb	0.007 ppb	-0.041 ppb	-0.018 ppb	0.001 ppb	-0.002 ppb	0.002 ppb	-0.005 ppb
Concentration per Run 3	0.011 ppb	0.010 ppb	0.006 ppb	-0.039 ppb	-0.015 ppb	0.001 ppb	-0.001 ppb	0.009 ppb	-0.007 ppb
Concentration per Run 4	0.011 ppb	0.009 ppb	0.006 ppb	-0.038 ppb	-0.005 ppb	0.001 ppb	-0.002 ppb	0.002 ppb	0.000 ppb
Concentration RSD	7.8 %	19.3 %	9.0 %	3.7 %	60.3 %	14.0 %	44.2 %	107.6 %	86.6 %

Category	63Cu (mp_KED)	65Cu (mp_KED)	95Mo (mp_KED)	97Mo (mp_KED)
Concentration average	-0.025 ppb	-0.025 ppb	0.194 ppb	0.198 ppb
Concentration per Run 1	-0.024 ppb	-0.024 ppb	0.177 ppb	0.183 ppb
Concentration per Run 2	-0.026 ppb	-0.024 ppb	0.188 ppb	0.194 ppb
Concentration per Run 3	-0.025 ppb	-0.026 ppb	0.207 ppb	0.206 ppb
Concentration per Run 4	-0.026 ppb	-0.026 ppb	0.204 ppb	0.209 ppb
Concentration RSD	3.4 %	4.5 %	7.1 %	6.0 %

Concentrations

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Instrument Name	Serial Number
iCAP RQ	Undefined

LabBook	LabBook Path
2023_12_21_M94_CrMnFeCoNiCu_SGoe-mtr.imexp	_Application Data\Workspace\LabBooks

Analysis index: 14
Analysis label: RZE-001 - 0.1mol/L KOH post OER 5h 10s - 1%
Analysis started at: 21-Dec-23 14:15:42
User name: THERMOF-6VBH8PN\ICPMS-User

Category	52Cr (mp_KED)	53Cr (mp_KED)	55Mn (mp_KED)	56Fe (mp_KED)	57Fe (mp_KED)	59Co (mp_KED)	60Ni (mp_KED)	61Ni (mp_KED)	62Ni (mp_KED)
Concentration average	0.141 ppb	0.231 ppb	0.073 ppb	0.168 ppb	0.173 ppb	0.014 ppb	0.023 ppb	0.027 ppb	0.023 ppb
Concentration per Run 1	0.140 ppb	0.232 ppb	0.073 ppb	0.163 ppb	0.184 ppb	0.014 ppb	0.021 ppb	0.015 ppb	0.019 ppb
Concentration per Run 2	0.142 ppb	0.233 ppb	0.072 ppb	0.168 ppb	0.164 ppb	0.015 ppb	0.022 ppb	0.038 ppb	0.024 ppb
Concentration per Run 3	0.141 ppb	0.225 ppb	0.073 ppb	0.169 ppb	0.178 ppb	0.015 ppb	0.025 ppb	0.028 ppb	0.026 ppb
Concentration per Run 4	0.143 ppb	0.236 ppb	0.073 ppb	0.171 ppb	0.166 ppb	0.013 ppb	0.025 ppb	0.026 ppb	0.024 ppb
Concentration RSD	0.9 %	2.1 %	0.6 %	2.2 %	5.6 %	4.3 %	9.5 %	35.2 %	13.0 %

Category	63Cu (mp_KED)	65Cu (mp_KED)	95Mo (mp_KED)	97Mo (mp_KED)
Concentration average	0.037 ppb	0.038 ppb	1.676 ppb	1.691 ppb
Concentration per Run 1	0.038 ppb	0.038 ppb	1.659 ppb	1.676 ppb
Concentration per Run 2	0.037 ppb	0.038 ppb	1.672 ppb	1.694 ppb
Concentration per Run 3	0.038 ppb	0.037 ppb	1.679 ppb	1.692 ppb
Concentration per Run 4	0.036 ppb	0.038 ppb	1.693 ppb	1.704 ppb
Concentration RSD	3.5 %	0.7 %	0.8 %	0.7 %

Concentrations

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Instrument Name	Serial Number
iCAP RQ	Undefined

LabBook	LabBook Path
2023_12_21_M94_CrMnFeCoNiCu_SGoe-mtr.imexp	_Application Data\Workspace\LabBooks

Analysis index: 15
Analysis label: RZE-001 - 0.1mol/L KOH post OER 5h 10s - 10%
Analysis started at: 21-Dec-23 14:20:49
User name: THERMOF-6VBH8PNICPMS-User

Category	52Cr (mp_KED)	53Cr (mp_KED)	55Mn (mp_KED)	56Fe (mp_KED)	57Fe (mp_KED)	59Co (mp_KED)	60Ni (mp_KED)	61Ni (mp_KED)	62Ni (mp_KED)
Concentration average	1.619 ppb	3.480 ppb	0.895 ppb	2.221 ppb	1.995 ppb	0.145 ppb	0.251 ppb	0.264 ppb	0.248 ppb
Concentration per Run 1	1.599 ppb	3.466 ppb	0.886 ppb	2.213 ppb	2.041 ppb	0.144 ppb	0.250 ppb	0.264 ppb	0.255 ppb
Concentration per Run 2	1.611 ppb	3.498 ppb	0.893 ppb	2.214 ppb	1.980 ppb	0.144 ppb	0.249 ppb	0.264 ppb	0.261 ppb
Concentration per Run 3	1.638 ppb	3.516 ppb	0.902 ppb	2.231 ppb	1.993 ppb	0.146 ppb	0.254 ppb	0.260 ppb	0.238 ppb
Concentration per Run 4	1.627 ppb	3.441 ppb	0.898 ppb	2.225 ppb	1.965 ppb	0.144 ppb	0.250 ppb	0.267 ppb	0.240 ppb
Concentration RSD	1.1 %	1.0 %	0.7 %	0.4 %	1.6 %	0.5 %	0.8 %	1.0 %	4.6 %

Category	63Cu (mp_KED)	65Cu (mp_KED)	95Mo (mp_KED)	97Mo (mp_KED)
Concentration average	0.606 ppb	0.615 ppb	0.245 ppb	0.241 ppb
Concentration per Run 1	0.608 ppb	0.617 ppb	0.230 ppb	0.233 ppb
Concentration per Run 2	0.601 ppb	0.608 ppb	0.241 ppb	0.231 ppb
Concentration per Run 3	0.613 ppb	0.630 ppb	0.249 ppb	0.253 ppb
Concentration per Run 4	0.602 ppb	0.608 ppb	0.261 ppb	0.248 ppb
Concentration RSD	1.0 %	1.7 %	5.4 %	4.6 %

Concentrations

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Instrument Name	Serial Number
iCAP RQ	Undefined

LabBook	LabBook Path
2023_12_21_M94_CrMnFeCoNiCu_SGoe-mtr.imexp	_Application Data\Workspace\LabBooks

Analysis index: 16
Analysis label: RZE-001 - 0.1mol/L KOH post OER 5h 10s - 40%
Analysis started at: 21-Dec-23 14:25:56
User name: THERMOF-6VBH8PNICPMS-User

Category	52Cr (mp_KED)	53Cr (mp_KED)	55Mn (mp_KED)	56Fe (mp_KED)	57Fe (mp_KED)	59Co (mp_KED)	60Ni (mp_KED)	61Ni (mp_KED)	62Ni (mp_KED)
Concentration average	2.210 ppb	10.639 ppb	1.173 ppb	2.042 ppb	2.215 ppb	0.189 ppb	0.304 ppb	0.332 ppb	0.306 ppb
Concentration per Run 1	2.491 ppb	11.274 ppb	1.303 ppb	2.272 ppb	2.508 ppb	0.213 ppb	0.352 ppb	0.382 ppb	0.352 ppb
Concentration per Run 2	1.083 ppb	6.403 ppb	0.508 ppb	0.778 ppb	1.012 ppb	0.092 ppb	0.155 ppb	0.181 ppb	0.155 ppb
Concentration per Run 3	3.645 ppb	15.613 ppb	2.081 ppb	3.755 ppb	3.760 ppb	0.308 ppb	0.474 ppb	0.507 ppb	0.468 ppb
Concentration per Run 4	1.624 ppb	9.267 ppb	0.800 ppb	1.363 ppb	1.582 ppb	0.143 ppb	0.233 ppb	0.257 ppb	0.248 ppb
Concentration RSD	50.6 %	36.4 %	58.7 %	63.5 %	54.2 %	49.5 %	46.0 %	43.2 %	44.0 %

Category	63Cu (mp_KED)	65Cu (mp_KED)	95Mo (mp_KED)	97Mo (mp_KED)
Concentration average	0.689 ppb	0.699 ppb	0.144 ppb	0.132 ppb
Concentration per Run 1	0.810 ppb	0.816 ppb	0.171 ppb	0.152 ppb
Concentration per Run 2	0.366 ppb	0.368 ppb	0.064 ppb	0.054 ppb
Concentration per Run 3	1.047 ppb	1.064 ppb	0.243 ppb	0.226 ppb
Concentration per Run 4	0.534 ppb	0.547 ppb	0.099 ppb	0.095 ppb
Concentration RSD	43.6 %	43.7 %	55.2 %	56.5 %

Concentrations

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Instrument Name	Serial Number
iCAP RQ	Undefined

LabBook	LabBook Path
2023_12_21_M94_CrMnFeCoNiCu_SGoe-mtr.imexp	_Application Data\Workspace\LabBooks

Analysis index: 17 Analysis started at: 21-Dec-23 14:31:05
Analysis label: Rinse HNO3 2% User name: THERMOF-6VBH8PNICPMS-User

Category	52Cr (mp_KED)	53Cr (mp_KED)	55Mn (mp_KED)	56Fe (mp_KED)	57Fe (mp_KED)	59Co (mp_KED)	60Ni (mp_KED)	61Ni (mp_KED)	62Ni (mp_KED)
Concentration average	-0.001 ppb	0.093 ppb	0.007 ppb	0.094 ppb	0.103 ppb	0.002 ppb	0.012 ppb	0.017 ppb	0.012 ppb
Concentration per Run 1	-0.002 ppb	0.098 ppb	0.007 ppb	0.096 ppb	0.073 ppb	0.003 ppb	0.013 ppb	0.014 ppb	0.011 ppb
Concentration per Run 2	-0.001 ppb	0.095 ppb	0.008 ppb	0.092 ppb	0.199 ppb	0.002 ppb	0.013 ppb	0.015 ppb	0.009 ppb
Concentration per Run 3	-0.001 ppb	0.090 ppb	0.007 ppb	0.091 ppb	0.067 ppb	0.002 ppb	0.014 ppb	0.014 ppb	0.016 ppb
Concentration per Run 4	-0.002 ppb	0.091 ppb	0.008 ppb	0.095 ppb	0.073 ppb	0.003 ppb	0.009 ppb	0.026 ppb	0.013 ppb
Concentration RSD	24.7 %	3.9 %	4.2 %	2.7 %	61.9 %	16.8 %	17.1 %	32.8 %	25.6 %

Category	63Cu (mp_KED)	65Cu (mp_KED)	95Mo (mp_KED)	97Mo (mp_KED)
Concentration average	0.068 ppb	0.067 ppb	0.068 ppb	0.067 ppb
Concentration per Run 1	0.070 ppb	0.065 ppb	0.058 ppb	0.056 ppb
Concentration per Run 2	0.068 ppb	0.068 ppb	0.066 ppb	0.066 ppb
Concentration per Run 3	0.069 ppb	0.069 ppb	0.073 ppb	0.071 ppb
Concentration per Run 4	0.067 ppb	0.066 ppb	0.075 ppb	0.076 ppb
Concentration RSD	1.7 %	2.7 %	11.5 %	13.2 %

Concentrations

21-Dec-23 17:15:18



Instrument Name	Serial Number
iCAP RQ	Undefined

LabBook	LabBook Path
2023_12_21_M94_CrMnFeCoNiCu_SGoe-mtr.imexp	_Application Data\Workspace\LabBooks

Analysis index: 18
Analysis label: 548 Moleculite-MnCu-7.88mg-Timothy Oppotsch - 0.01%

Analysis started at: 21-Dec-23 14:36:11
User name: THERMOF-6VBH8PNICPMS-User

Category	52Cr (mp_KED)	53Cr (mp_KED)	55Mn (mp_KED)	56Fe (mp_KED)	57Fe (mp_KED)	59Co (mp_KED)	60Ni (mp_KED)	61Ni (mp_KED)	62Ni (mp_KED)
Concentration average	-0.001 ppb	0.060 ppb	32.119 ppb	0.790 ppb	0.790 ppb	0.009 ppb	0.127 ppb	0.139 ppb	0.125 ppb
Concentration per Run 1	-0.001 ppb	0.058 ppb	32.368 ppb	0.806 ppb	0.804 ppb	0.009 ppb	0.127 ppb	0.139 ppb	0.128 ppb
Concentration per Run 2	0.000 ppb	0.067 ppb	31.843 ppb	0.779 ppb	0.737 ppb	0.009 ppb	0.127 ppb	0.136 ppb	0.124 ppb
Concentration per Run 3	0.000 ppb	0.055 ppb	32.127 ppb	0.785 ppb	0.856 ppb	0.009 ppb	0.126 ppb	0.151 ppb	0.132 ppb
Concentration per Run 4	0.000 ppb	0.059 ppb	32.138 ppb	0.791 ppb	0.763 ppb	0.008 ppb	0.129 ppb	0.128 ppb	0.115 ppb
Concentration RSD	103.7 %	7.9 %	0.7 %	1.4 %	6.6 %	6.3 %	0.9 %	7.0 %	5.8 %

Category	63Cu (mp_KED)	65Cu (mp_KED)	95Mo (mp_KED)	97Mo (mp_KED)
Concentration average	19.477 ppb	19.554 ppb	0.063 ppb	0.065 ppb
Concentration per Run 1	19.652 ppb	19.762 ppb	0.054 ppb	0.058 ppb
Concentration per Run 2	19.325 ppb	19.433 ppb	0.058 ppb	0.064 ppb
Concentration per Run 3	19.542 ppb	19.485 ppb	0.071 ppb	0.068 ppb
Concentration per Run 4	19.390 ppb	19.538 ppb	0.070 ppb	0.071 ppb
Concentration RSD	0.8 %	0.7 %	13.6 %	8.9 %

Concentrations

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Instrument Name	Serial Number
iCAP RQ	Undefined

LabBook	LabBook Path
2023_12_21_M94_CrMnFeCoNiCu_SGoe-mtr.imexp	_Application Data\Workspace\LabBooks

Analysis index: 19
Analysis label: 548 Moleculite-MnCu-7.88mg-Timothy Oppotsch - 0.1%
Analysis started at: 21-Dec-23 14:41:17
User name: THERMOF-6VBH8PN\ICPMS-User

Category	52Cr (mp_KED)	53Cr (mp_KED)	55Mn (mp_KED)	56Fe (mp_KED)	57Fe (mp_KED)	59Co (mp_KED)	60Ni (mp_KED)	61Ni (mp_KED)	62Ni (mp_KED)
Concentration average	0.020 ppb	0.060 ppb	316.521 ppb	3.136 ppb	3.117 ppb	0.088 ppb	1.270 ppb	1.262 ppb	1.262 ppb
Concentration per Run 1	0.021 ppb	0.058 ppb	316.249 ppb	3.147 ppb	3.069 ppb	0.087 ppb	1.271 ppb	1.275 ppb	1.264 ppb
Concentration per Run 2	0.019 ppb	0.059 ppb	315.902 ppb	3.136 ppb	3.154 ppb	0.088 ppb	1.262 ppb	1.249 ppb	1.259 ppb
Concentration per Run 3	0.021 ppb	0.060 ppb	317.188 ppb	3.146 ppb	3.150 ppb	0.087 ppb	1.283 ppb	1.303 ppb	1.261 ppb
Concentration per Run 4	0.019 ppb	0.065 ppb	316.744 ppb	3.115 ppb	3.095 ppb	0.089 ppb	1.263 ppb	1.221 ppb	1.263 ppb
Concentration RSD	5.8 %	5.6 %	0.2 %	0.5 %	1.3 %	1.3 %	0.8 %	2.8 %	0.2 %

Category	63Cu (mp_KED)	65Cu (mp_KED)	95Mo (mp_KED)	97Mo (mp_KED)
Concentration average	196.345 ppb	194.285 ppb	1.805 ppb	1.821 ppb
Concentration per Run 1	195.748 ppb	194.387 ppb	1.798 ppb	1.822 ppb
Concentration per Run 2	197.016 ppb	194.588 ppb	1.809 ppb	1.838 ppb
Concentration per Run 3	196.729 ppb	194.909 ppb	1.813 ppb	1.821 ppb
Concentration per Run 4	195.888 ppb	193.255 ppb	1.798 ppb	1.805 ppb
Concentration RSD	0.3 %	0.4 %	0.4 %	0.7 %

Concentrations

21-Dec-23 17:15:18



Instrument Name	Serial Number
iCAP RQ	Undefined

LabBook	LabBook Path
2023_12_21_M94_CrMnFeCoNiCu_SGoe-mtr.imexp	_Application Data\Workspace\LabBooks

Analysis index: 20
Analysis label: 548 Moleculite-MnCu-7.88mg-Timothy Oppotsch - 1%
Analysis started at: 21-Dec-23 14:46:24
User name: THERMOF-6VBH8PN\ICPMS-User

Category	52Cr (mp_KED)	53Cr (mp_KED)	55Mn (mp_KED)	56Fe (mp_KED)	57Fe (mp_KED)	59Co (mp_KED)	60Ni (mp_KED)	61Ni (mp_KED)	62Ni (mp_KED)
Concentration average	0.148 ppb	0.171 ppb	3,060.309 ppb	28.124 ppb	28.060 ppb	0.866 ppb	12.211 ppb	12.250 ppb	12.255 ppb
Concentration per Run 1	0.149 ppb	0.174 ppb	3,105.911 ppb	28.365 ppb	28.344 ppb	0.868 ppb	12.339 ppb	12.228 ppb	12.329 ppb
Concentration per Run 2	0.149 ppb	0.177 ppb	3,080.352 ppb	28.295 ppb	28.111 ppb	0.872 ppb	12.262 ppb	12.331 ppb	12.249 ppb
Concentration per Run 3	0.148 ppb	0.167 ppb	3,054.445 ppb	28.088 ppb	28.140 ppb	0.863 ppb	12.163 ppb	12.179 ppb	12.204 ppb
Concentration per Run 4	0.148 ppb	0.165 ppb	3,000.526 ppb	27.749 ppb	27.646 ppb	0.859 ppb	12.081 ppb	12.260 ppb	12.236 ppb
Concentration RSD	0.3 %	3.4 %	1.5 %	1.0 %	1.1 %	0.7 %	0.9 %	0.5 %	0.4 %

Category	63Cu (mp_KED)	65Cu (mp_KED)	95Mo (mp_KED)	97Mo (mp_KED)
Concentration average	1,867.394 ppb	1,854.366 ppb	0.063 ppb	0.063 ppb
Concentration per Run 1	1,889.855 ppb	1,876.486 ppb	0.057 ppb	0.057 ppb
Concentration per Run 2	1,875.204 ppb	1,863.926 ppb	0.060 ppb	0.059 ppb
Concentration per Run 3	1,862.855 ppb	1,847.633 ppb	0.065 ppb	0.065 ppb
Concentration per Run 4	1,841.664 ppb	1,829.419 ppb	0.069 ppb	0.069 ppb
Concentration RSD	1.1 %	1.1 %	8.2 %	8.4 %

Concentrations

21-Dec-23 17:15:18



Instrument Name	Serial Number
iCAP RQ	Undefined

LabBook	LabBook Path
2023_12_21_M94_CrMnFeCoNiCu_SGoe-mtr.imexp	_Application Data\Workspace\LabBooks

Analysis index: 21 Analysis started at: 21-Dec-23 14:51:32
Analysis label: Rinse HNO3 2% User name: THERMOF-6VBH8PNICPMS-User

Category	52Cr (mp_KED)	53Cr (mp_KED)	55Mn (mp_KED)	56Fe (mp_KED)	57Fe (mp_KED)	59Co (mp_KED)	60Ni (mp_KED)	61Ni (mp_KED)	62Ni (mp_KED)
Concentration average	-0.003 ppb	0.011 ppb	0.124 ppb	0.029 ppb	0.067 ppb	-0.001 ppb	0.008 ppb	0.012 ppb	0.006 ppb
Concentration per Run 1	-0.004 ppb	0.013 ppb	0.137 ppb	0.029 ppb	0.168 ppb	-0.001 ppb	0.007 ppb	0.009 ppb	0.005 ppb
Concentration per Run 2	-0.004 ppb	0.011 ppb	0.119 ppb	0.027 ppb	0.032 ppb	-0.001 ppb	0.008 ppb	0.007 ppb	0.001 ppb
Concentration per Run 3	-0.003 ppb	0.011 ppb	0.120 ppb	0.025 ppb	0.029 ppb	0.000 ppb	0.006 ppb	0.014 ppb	0.009 ppb
Concentration per Run 4	-0.003 ppb	0.011 ppb	0.122 ppb	0.036 ppb	0.038 ppb	-0.001 ppb	0.010 ppb	0.017 ppb	0.007 ppb
Concentration RSD	16.5 %	10.5 %	6.5 %	17.1 %	101.2 %	27.9 %	19.8 %	38.0 %	57.7 %

Category	63Cu (mp_KED)	65Cu (mp_KED)	95Mo (mp_KED)	97Mo (mp_KED)
Concentration average	0.151 ppb	0.153 ppb	0.041 ppb	0.042 ppb
Concentration per Run 1	0.164 ppb	0.167 ppb	0.035 ppb	0.034 ppb
Concentration per Run 2	0.150 ppb	0.149 ppb	0.040 ppb	0.037 ppb
Concentration per Run 3	0.148 ppb	0.150 ppb	0.042 ppb	0.044 ppb
Concentration per Run 4	0.142 ppb	0.146 ppb	0.049 ppb	0.051 ppb
Concentration RSD	6.0 %	6.4 %	13.9 %	18.4 %

Concentrations

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Instrument Name	Serial Number
iCAP RQ	Undefined

LabBook	LabBook Path
2023_12_21_M94_CrMnFeCoNiCu_SGoe-mtr.imexp	_Application Data\Workspace\LabBooks

Analysis index: 22 Analysis started at: 21-Dec-23 14:56:38
Analysis label: Blind1 - Aufschluss -10% User name: THERMOF-6VBH8PN\ICPMS-User

Category	52Cr (mp_KED)	53Cr (mp_KED)	55Mn (mp_KED)	56Fe (mp_KED)	57Fe (mp_KED)	59Co (mp_KED)	60Ni (mp_KED)	61Ni (mp_KED)	62Ni (mp_KED)
Concentration average	0.124 ppb	0.134 ppb	0.027 ppb	0.262 ppb	0.271 ppb	0.003 ppb	0.199 ppb	0.199 ppb	0.197 ppb
Concentration per Run 1	0.126 ppb	0.138 ppb	0.027 ppb	0.262 ppb	0.288 ppb	0.003 ppb	0.205 ppb	0.190 ppb	0.187 ppb
Concentration per Run 2	0.123 ppb	0.134 ppb	0.027 ppb	0.261 ppb	0.265 ppb	0.003 ppb	0.200 ppb	0.202 ppb	0.201 ppb
Concentration per Run 3	0.124 ppb	0.131 ppb	0.028 ppb	0.265 ppb	0.269 ppb	0.003 ppb	0.196 ppb	0.197 ppb	0.199 ppb
Concentration per Run 4	0.124 ppb	0.134 ppb	0.025 ppb	0.258 ppb	0.263 ppb	0.004 ppb	0.196 ppb	0.208 ppb	0.200 ppb
Concentration RSD	1.1 %	2.2 %	3.9 %	1.2 %	4.2 %	5.4 %	2.2 %	3.9 %	3.3 %

Category	63Cu (mp_KED)	65Cu (mp_KED)	95Mo (mp_KED)	97Mo (mp_KED)
Concentration average	0.069 ppb	0.069 ppb	0.042 ppb	0.042 ppb
Concentration per Run 1	0.069 ppb	0.071 ppb	0.036 ppb	0.035 ppb
Concentration per Run 2	0.070 ppb	0.069 ppb	0.041 ppb	0.042 ppb
Concentration per Run 3	0.072 ppb	0.070 ppb	0.044 ppb	0.046 ppb
Concentration per Run 4	0.067 ppb	0.068 ppb	0.045 ppb	0.046 ppb
Concentration RSD	2.8 %	1.8 %	10.4 %	12.0 %

Concentrations

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Instrument Name	Serial Number
iCAP RQ	Undefined

LabBook	LabBook Path
2023_12_21_M94_CrMnFeCoNiCu_SGoe-mtr.imexp	_Application Data\Workspace\LabBooks

Analysis index: 23 Analysis started at: 21-Dec-23 15:01:48
Analysis label: Blind2 - Aufschluss -10% User name: THERMOF-6VBH8PN\ICPMS-User

Category	52Cr (mp_KED)	53Cr (mp_KED)	55Mn (mp_KED)	56Fe (mp_KED)	57Fe (mp_KED)	59Co (mp_KED)	60Ni (mp_KED)	61Ni (mp_KED)	62Ni (mp_KED)
Concentration average	1.035 ppb	1.054 ppb	0.049 ppb	3.734 ppb	3.700 ppb	0.015 ppb	0.819 ppb	0.807 ppb	0.810 ppb
Concentration per Run 1	1.025 ppb	1.041 ppb	0.050 ppb	3.711 ppb	3.674 ppb	0.015 ppb	0.810 ppb	0.795 ppb	0.802 ppb
Concentration per Run 2	1.044 ppb	1.073 ppb	0.050 ppb	3.753 ppb	3.765 ppb	0.015 ppb	0.835 ppb	0.811 ppb	0.831 ppb
Concentration per Run 3	1.035 ppb	1.043 ppb	0.049 ppb	3.746 ppb	3.652 ppb	0.015 ppb	0.818 ppb	0.841 ppb	0.786 ppb
Concentration per Run 4	1.038 ppb	1.060 ppb	0.048 ppb	3.726 ppb	3.707 ppb	0.014 ppb	0.815 ppb	0.779 ppb	0.820 ppb
Concentration RSD	0.8 %	1.4 %	2.1 %	0.5 %	1.3 %	2.1 %	1.3 %	3.3 %	2.4 %

Category	63Cu (mp_KED)	65Cu (mp_KED)	95Mo (mp_KED)	97Mo (mp_KED)
Concentration average	0.063 ppb	0.064 ppb	0.242 ppb	0.247 ppb
Concentration per Run 1	0.063 ppb	0.066 ppb	0.236 ppb	0.237 ppb
Concentration per Run 2	0.066 ppb	0.063 ppb	0.241 ppb	0.246 ppb
Concentration per Run 3	0.062 ppb	0.063 ppb	0.244 ppb	0.252 ppb
Concentration per Run 4	0.063 ppb	0.063 ppb	0.247 ppb	0.253 ppb
Concentration RSD	3.1 %	2.6 %	1.9 %	3.0 %

Concentrations

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Instrument Name	Serial Number
iCAP RQ	Undefined

LabBook	LabBook Path
2023_12_21_M94_CrMnFeCoNiCu_SGoe-mtr.imexp	_Application Data\Workspace\LabBooks

Analysis index: 25 Analysis started at: 21-Dec-23 15:12:05
Analysis label: Rinse HNO3 2% User name: THERMOF-6VBH8PNICPMS-User

Category	52Cr (mp_KED)	53Cr (mp_KED)	55Mn (mp_KED)	56Fe (mp_KED)	57Fe (mp_KED)	59Co (mp_KED)	60Ni (mp_KED)	61Ni (mp_KED)	62Ni (mp_KED)
Concentration average	0.001 ppb	0.007 ppb	0.013 ppb	0.019 ppb	0.019 ppb	-0.001 ppb	0.006 ppb	0.014 ppb	0.008 ppb
Concentration per Run 1	0.001 ppb	0.004 ppb	0.013 ppb	0.018 ppb	0.016 ppb	-0.001 ppb	0.008 ppb	0.011 ppb	0.008 ppb
Concentration per Run 2	0.001 ppb	0.010 ppb	0.013 ppb	0.023 ppb	0.020 ppb	-0.001 ppb	0.006 ppb	0.012 ppb	0.005 ppb
Concentration per Run 3	0.002 ppb	0.008 ppb	0.013 ppb	0.017 ppb	0.025 ppb	-0.001 ppb	0.006 ppb	0.013 ppb	0.006 ppb
Concentration per Run 4	0.002 ppb	0.005 ppb	0.013 ppb	0.020 ppb	0.013 ppb	-0.002 ppb	0.005 ppb	0.020 ppb	0.011 ppb
Concentration RSD	58.4 %	39.9 %	1.3 %	13.4 %	28.1 %	9.3 %	23.9 %	29.0 %	35.2 %

Category	63Cu (mp_KED)	65Cu (mp_KED)	95Mo (mp_KED)	97Mo (mp_KED)
Concentration average	0.027 ppb	0.026 ppb	0.025 ppb	0.025 ppb
Concentration per Run 1	0.026 ppb	0.024 ppb	0.022 ppb	0.022 ppb
Concentration per Run 2	0.027 ppb	0.027 ppb	0.023 ppb	0.024 ppb
Concentration per Run 3	0.028 ppb	0.027 ppb	0.027 ppb	0.026 ppb
Concentration per Run 4	0.028 ppb	0.027 ppb	0.028 ppb	0.028 ppb
Concentration RSD	2.8 %	4.9 %	13.5 %	9.3 %

Concentrations

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Instrument Name	Serial Number
iCAP RQ	Undefined

LabBook	LabBook Path
2023_12_21_M94_CrMnFeCoNiCu_SGoe-mtr.imexp	_Application Data\Workspace\LabBooks

Analysis index: 26
Analysis label: M28Ru 10 ppb 1500ml HNO3 in 50ml 27.10.2023 mtr

Analysis started at: 21-Dec-23 15:17:11
User name: THERMOF-6VBH8PNICPMS-User

Category	52Cr (mp_KED)	53Cr (mp_KED)	55Mn (mp_KED)	56Fe (mp_KED)	57Fe (mp_KED)	59Co (mp_KED)	60Ni (mp_KED)	61Ni (mp_KED)	62Ni (mp_KED)
Concentration average	12.883 ppb	12.858 ppb	11.591 ppb	16.158 ppb	16.192 ppb	11.429 ppb	11.805 ppb	11.795 ppb	11.847 ppb
Concentration per Run 1	12.946 ppb	12.908 ppb	11.604 ppb	16.189 ppb	16.125 ppb	11.426 ppb	11.767 ppb	11.881 ppb	11.869 ppb
Concentration per Run 2	12.945 ppb	12.935 ppb	11.628 ppb	16.177 ppb	16.315 ppb	11.539 ppb	11.911 ppb	11.714 ppb	12.016 ppb
Concentration per Run 3	12.817 ppb	12.802 ppb	11.580 ppb	16.188 ppb	16.095 ppb	11.409 ppb	11.769 ppb	11.847 ppb	11.783 ppb
Concentration per Run 4	12.825 ppb	12.787 ppb	11.553 ppb	16.080 ppb	16.235 ppb	11.344 ppb	11.772 ppb	11.738 ppb	11.717 ppb
Concentration RSD	0.6 %	0.6 %	0.3 %	0.3 %	0.6 %	0.7 %	0.6 %	0.7 %	1.1 %

Category	63Cu (mp_KED)	65Cu (mp_KED)	95Mo (mp_KED)	97Mo (mp_KED)
Concentration average	11.671 ppb	11.720 ppb	11.141 ppb	11.218 ppb
Concentration per Run 1	11.679 ppb	11.714 ppb	11.188 ppb	11.242 ppb
Concentration per Run 2	11.745 ppb	11.808 ppb	11.225 ppb	11.312 ppb
Concentration per Run 3	11.630 ppb	11.725 ppb	11.090 ppb	11.156 ppb
Concentration per Run 4	11.631 ppb	11.634 ppb	11.063 ppb	11.163 ppb
Concentration RSD	0.5 %	0.6 %	0.7 %	0.7 %

Concentrations

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Instrument Name	Serial Number
iCAP RQ	Undefined

LabBook	LabBook Path
2023_12_21_M94_CrMnFeCoNiCu_SGoe-mtr.imexp	_Application Data\Workspace\LabBooks

Analysis index: 27 Analysis started at: 21-Dec-23 15:22:21
Analysis label: Rinse HNO3 2% User name: THERMOF-6VBH8PNICPMS-User

Category	52Cr (mp_KED)	53Cr (mp_KED)	55Mn (mp_KED)	56Fe (mp_KED)	57Fe (mp_KED)	59Co (mp_KED)	60Ni (mp_KED)	61Ni (mp_KED)	62Ni (mp_KED)
Concentration average	-0.002 ppb	0.002 ppb	0.012 ppb	0.023 ppb	0.026 ppb	-0.002 ppb	0.008 ppb	0.013 ppb	0.006 ppb
Concentration per Run 1	-0.002 ppb	0.005 ppb	0.013 ppb	0.022 ppb	0.012 ppb	-0.002 ppb	0.007 ppb	0.014 ppb	0.007 ppb
Concentration per Run 2	-0.002 ppb	0.001 ppb	0.012 ppb	0.022 ppb	0.038 ppb	-0.002 ppb	0.007 ppb	0.013 ppb	0.004 ppb
Concentration per Run 3	-0.002 ppb	0.001 ppb	0.012 ppb	0.022 ppb	0.024 ppb	-0.002 ppb	0.009 ppb	0.011 ppb	0.005 ppb
Concentration per Run 4	-0.001 ppb	0.002 ppb	0.013 ppb	0.024 ppb	0.030 ppb	-0.002 ppb	0.008 ppb	0.014 ppb	0.008 ppb
Concentration RSD	25.2 %	100.7 %	5.2 %	4.5 %	42.1 %	7.8 %	9.6 %	8.8 %	29.3 %

Category	63Cu (mp_KED)	65Cu (mp_KED)	95Mo (mp_KED)	97Mo (mp_KED)
Concentration average	0.026 ppb	0.025 ppb	0.134 ppb	0.133 ppb
Concentration per Run 1	0.026 ppb	0.024 ppb	0.125 ppb	0.124 ppb
Concentration per Run 2	0.025 ppb	0.025 ppb	0.136 ppb	0.137 ppb
Concentration per Run 3	0.028 ppb	0.025 ppb	0.137 ppb	0.138 ppb
Concentration per Run 4	0.025 ppb	0.025 ppb	0.138 ppb	0.135 ppb
Concentration RSD	5.3 %	3.0 %	4.6 %	4.8 %

Concentrations

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Instrument Name	Serial Number
iCAP RQ	Undefined

LabBook	LabBook Path
2023_12_21_M94_CrMnFeCoNiCu_SGoe-mtr.imexp	_Application Data\Workspace\LabBooks

Analysis index: 28 Analysis started at: 21-Dec-23 15:27:28
Analysis label: pure water User name: THERMOF-6VBH8PN\ICPMS-User

Category	52Cr (mp_KED)	53Cr (mp_KED)	55Mn (mp_KED)	56Fe (mp_KED)	57Fe (mp_KED)	59Co (mp_KED)	60Ni (mp_KED)	61Ni (mp_KED)	62Ni (mp_KED)
Concentration average	-0.006 ppb	-0.002 ppb	0.081 ppb	-0.082 ppb	-0.066 ppb	-0.002 ppb	0.851 ppb	0.870 ppb	0.839 ppb
Concentration per Run 1	-0.006 ppb	-0.002 ppb	0.081 ppb	-0.078 ppb	-0.061 ppb	-0.002 ppb	0.844 ppb	0.882 ppb	0.848 ppb
Concentration per Run 2	-0.005 ppb	-0.002 ppb	0.081 ppb	-0.078 ppb	-0.065 ppb	-0.002 ppb	0.838 ppb	0.860 ppb	0.824 ppb
Concentration per Run 3	-0.006 ppb	0.000 ppb	0.081 ppb	-0.085 ppb	-0.066 ppb	-0.002 ppb	0.847 ppb	0.853 ppb	0.837 ppb
Concentration per Run 4	-0.006 ppb	-0.005 ppb	0.081 ppb	-0.087 ppb	-0.074 ppb	-0.002 ppb	0.873 ppb	0.884 ppb	0.846 ppb
Concentration RSD	1.6 %	80.3 %	0.4 %	5.6 %	8.0 %	9.3 %	1.8 %	1.8 %	1.3 %

Category	63Cu (mp_KED)	65Cu (mp_KED)	95Mo (mp_KED)	97Mo (mp_KED)
Concentration average	0.274 ppb	0.274 ppb	0.008 ppb	0.009 ppb
Concentration per Run 1	0.271 ppb	0.265 ppb	0.009 ppb	0.008 ppb
Concentration per Run 2	0.270 ppb	0.271 ppb	0.009 ppb	0.010 ppb
Concentration per Run 3	0.279 ppb	0.277 ppb	0.006 ppb	0.008 ppb
Concentration per Run 4	0.277 ppb	0.282 ppb	0.008 ppb	0.010 ppb
Concentration RSD	1.7 %	2.7 %	17.0 %	12.2 %

Concentrations

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